

Title (en)  
Train information exchange

Title (de)  
Austausch von Informationen mit einem Zug

Title (fr)  
Échange d'informations avec un train

Publication  
**EP 2371661 A3 20170816 (EN)**

Application  
**EP 11158744 A 20110317**

Priority  
GB 201004536 A 20100318

Abstract (en)  
[origin: EP2371661A2] A method of exchanging information between train-carried equipment, said equipment being provided for operation of the train, and a remote location external to said train, comprises the steps of: providing a portable device, said portable device comprising data storage means, data input means for writing data to said data storage means and data output means for outputting data from said data storage means to an external location; providing train connection means at the train-carried equipment enabling communication with said portable device for the exchange of data therewith, the connection means enabling said data exchange when the portable device is correctly located within the train; and providing auxiliary connection means at the remote location enabling communication with the portable device for the exchange of data therewith.

IPC 8 full level  
**B61L 15/00** (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP)  
**B61L 15/0027** (2013.01); **B61L 15/0072** (2013.01); **B61L 27/40** (2022.01); **B61L 2205/02** (2013.01)

Citation (search report)

- [XAY] US 2009048725 A1 20090219 - KANE MARK EDWARD [US], et al
- [XA] WO 0130632 A1 20010503 - GEN ELECTRIC [US]
- [Y] EP 1942041 A2 20080709 - WESTINGHOUSE BRAKE & SIGNAL [GB]
- [YA] WO 2005002944 A1 20050113 - SHALOM ENGINEERING CO LTD [KR], et al
- [A] JP 2006321264 A 20061130 - TOSHIBA CORP
- [A] DE 19743306 A1 19990408 - SIEMENS AG [DE]

Cited by  
GB2556893A; CN102750452A; DE102012216430A1; CN104378601A; CN106250471A; CN104401366A; CN105882689A; US9776647B2; WO2018095696A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2371661 A2 20111005; EP 2371661 A3 20170816; EP 2371661 B1 20220427**; ES 2918579 T3 20220719; GB 201004536 D0 20100505

DOCDB simple family (application)  
**EP 11158744 A 20110317**; ES 11158744 T 20110317; GB 201004536 A 20100318